INDEX*

Α

formulation, liquid. **Agitation,** 53, 54, 55, 60, 65, 151, 152, 157 A. See Aerosol. Agitator, 167. See Pesticide application, equipment, sprayer **Absorption,** 55, 58, 60, 73, 81, 90, 129, 159. See also components. Adsorption. Agricultural use requirements. See Pesticide label, parts of. Acaricide. See Miticide. Air-blast sprayer, 166, See Pesticide application, equipment. Acidic, 63, 64, 82. See also Alkaline. Air-purifying respirator. See Respirators. Acidifier. See Buffer or pH modifier. Air-supplying respirator. See Respirators. Action threshold. See Pest population thresholds. Alkaline, 60, 63, 64, 82, 144. See also Acidic. **Activated charcoal, 82, 130, 144, 145** Allergic effects, 71, 72. See Pesticide effects. Active ingredient, 20, 22, 32, 35, 36, 37, 45, 47, 51, 53, 54, Animal systemic, 61. See Pesticide, systemic; Pesticide 55, 56, 57, 58, 59, 60, 61, 62, 66, 74, 75, 76, 78, 88, 89, formulation, other. 94, 108, 128, 129. See also Inert ingredient. Anticoagulant, 78, 83 concentration, 99, 101, 131, 137 Antidotes, See First aid, general concerns. Acute effect. See Pesticide effects. Antimicrobial. See Disinfectant. Acute exposure. See Pesticide exposure. Antisiphoning device, 153. See also Back-siphoning. Acute toxicity, 74. See Pesticide toxicity; LC_{50} ; LD_{50} . Application. See Pesticide application. **Adjuvant, 63,** 64, **65,** 66, 150, 152, 173 **Application rate,** 6, 14, 24, 26, 33, 35, 116, 117, 119, for spray application, 63 150, 158, 166, 168, 169, **170**, 171, 172. See Pesticide types of, 63 application, calculating the rate. buffer or pH modifier, 64, 150 **Application site**, 12, 21, 34, 35, 43, 60, 106, 107, 108, 109, compatibility agent, 64, 152 112, 113, 116, 117, 124, 158, 166, 172, 178, 180 defoaming agent, 65, 150 Apron, 91. See Personal protective equipment (PPE), skin drift retardant, 65 protection; Chemical resistant. extender, 64 Aguifer, 113. See Groundwater. plant penetrant, 64, 150 Areas. See Calculating areas. sticker, 51, 64, 150 Arthropod, 8 surfactant, 63, 64, 150 Atropine sulfate, 83 spreader, 51, 63, 64, 66, 150 wetting agent, 63, 66 Attractant, 61. See Pesticide formulation, other. Avicide. See Pesticide. thickener, 65, 110 Adsorption, 106, 114. See Pesticide characteristics. Aviso. See Signal word, WARNING.

Adulterated pesticide, 24, 38

Aerosol (A), 52, 55, 61, 93, 129, 156, 166, 174. See Pesticide

^{*} Bolded numbers indicate where the term appears as a bolded text or in a section heading.

B. See Bait. Backpack sprayer. See Pesticide application, equipment. Back-siphoning, 112, 116, 121, 153 **Bacteria**, 1, 4, 8, 69, 107 Bactericide. See Pesticide. Bait (B), 51, 56, 57, 58, 66, 74, 118, 163, 168. See Pesticide formulation, dry or solid. Band application, 163. See Pesticide application, methods. **Basal application, 164.** *See* **Pesticide application,** methods. Bees, 40, 41, 61, 117, 118, 120. See also Beneficial insect. Beneficial insect, 10, 117, 118, 120. See also Bees. Best management practices (BMPs), 115 Bioaccumulation, 3 Biological control. See Pest management, methods. Biological degradation. See Pesticide degradation. Biomagnification, 3 Biopesticide, 22 BMP. See Best management practices. **Botanical pesticide,** 8 Brand name, 36, 45. See Pesticide label, parts of. **Broadcast application.** *See* **Pesticide application,** methods. Broadleaf plants/weeds, 9

Calculating areas, 169, 170 circular, 170 rectangular, 170 triangular, 170 Calibration, 54, 59, 115, 163, 169, 170, 171, 174. See Pesticide application, equipment. Carbamate, 8, 36, 78, 79, 83, See Pesticide, insecticide. Carcinogenicity/carcinogen, 46, 47 Carrier, 51, 53, 54, 55, 56, 66, 152, 166 **CAUTION.** See Signal word. Certified applicator, 20, 21, 28, 177, 178, 182 commercial, 20, 24, 26, 28, 178 private, **20**, 26, 28 Chemical control. See Pest management, methods. Chemical degradation, 33, 107. See Pesticide degradation. Chemical incompatibility. See Incompatibility. Chemical name, 36

Chemical resistant, 88, 89, 90, 91, 92, 93, 98, 99, 100, 101,

156. See Personal protective equipment (PPE).

Buffer or pH modifier, 64, 150. See Adjuvant, types of.

```
footwear, 87, 88, 90, 91, 92, 98, 99, 101, 145, 156, 157.
        See Personal protective equipment (PPE), skin
        protection.
    gloves, 87, 88, 90, 91, 92, 98, 99, 101, 145, 153, 156,
        157, 159. See Personal protective equipment (PPE),
        skin protection.
    hats, 88, 93, 99. See Personal protective equipment
        (PPE), skin protection.
    suit, 88, 90, 91, 98, 99, 101, 157. See Personal
        protective equipment (PPE), skin protection.
Chemigation, 168
CHEMTREC, 142. See Emergency response.
Chlorinated hydrocarbon (organochlorines), 3, 8. See also
    Pesticide, persistence; Environment, pesticides in.
Cholinesterase, 46, 79, 83, 84
Chronic exposure. See Pesticide exposure.
Chronic toxicity, 77. See Pesticide toxicity.
Closed mixing and loading systems, 164. See Mixing and
    loading.
    mechanical, 164, 174
        mini-bulk container, 165
    water-soluble bags, 165, 174
Commercial applicator. See Certified applicator.
Common name, 36
Communication. See Professional conduct, public and
    customer communications.
Compatibility, 150, 151. See Incompatibility.
    testing, 63, 152, 159
        jar test, 64, 152
Compatibility agent, 64, 152. See Adjuvant, types of.
Compatible, 150. See Compatibility.
Concentrated pesticides. See Pesticide concentrate.
Concentration. See Active ingredient; Lethal concentration,
    50 percent (LC_{50}).
Contact effects, 71. See Pesticide effects.
Contact pesticide. See Pesticide.
Container, 98, 112, 116, 124, 125, 126, 130, 146.
    See Pesticide container.
Containment pad, 165, 166. See Mixing and loading, safe
    practices; Pesticide application, safety systems.
Contamination, 41, 43, 73, 81, 92, 101, 107, 112, 115, 116,
    117, 118, 119,120, 124, 125, 126, 127, 137, 138,
    141, 143, 144, 146, 165, 174. See Environment, water
    contamination.
    cross-contamination, 126, 129
    groundwater, 41, 105, 112, 113, 114, 115, 116, 127
    sensitive areas, 117
```

apron, 87, 88, 90, 91, 98, 99, 101, 153. See Personal

protective equipment (PPE), skin protection.

surface water, 112, 113, 115, 116, 127 spray, 109, 110 Corrosive, 39, 41, 54, 73, 75, 93 techniques for minimizing, 172, 173 poison, 82 drift control additives, 172, 173 Coveralls, 87. See Personal protective equipment (PPE), large capacity nozzles, 172 skin protection. nozzle design, 172 Crack and crevice application. See Pesticide application, operating pressure, 172 methods. spray height or distance from the target site, 172 Cross-contamination. See Contamination. vapor, 109, 111 Drift control additives. See Drift, techniques for Cultivation. See Pest management, methods, mechanical control. minimizing. **Cultural control.** *See* **Pest management,** methods. **Drift retardant, 65.** See Adjuvant, types of. Cultural practices. See Pest management, methods, cultural Drop spreader. See Granular applicators; Pesticide control. application, equipment. Dry flowables (DF), 52, 60, 129, 152, 157, 167, 168. See Pesticide formulations, dry or solid; Water-dispersible D granules (WDG). **Dust (D),** 51, 52, 53, **54,** 56, 61, 66, 70, 72, 73, 88, 91, 111, D. See Dust. 118, 129, 144, 154, 157, 163. See Pesticide formulation, DANGER. See Signal word. dry or solid DANGER—POISON. See Signal word. Dust drift. See Drift, particle. Days to harvest. See Preharvest interval. Days to slaughter. See Preslaughter interval. E **Decontamination**, 42, 92, 129, 131, 144, 159 Defoaming agent, 65, 150. See Adjuvant, types of. EC or E. See Emulsifiable concentrate. Defoliant. See Pesticide. Degradation. See Chemical degradation; Pesticide Economic injury level (EIL). See Pest population thresholds. degradation. Economic threshold (ET). See Pest population thresholds. Delayed effects, 78. See Pesticide effects. Efficacy. See Pesticide efficacy. Delayed toxicity. See Pesticide toxicity. Emergency exemption, 21, 31, 34, 35. See Pesticide **Deposit,** 65, 172, 173. See also **Drift**. registration; Section 18 exemption. Dermal exposure. See Pesticide exposure. Emergency response, 80, 81, 125, 127, 129, 130, 132, 133, **Dermal LD₅₀** (lethal dose, 50 percent), **75.** See **LD₅₀**. 134, **137**, 138, 139, 140, 141, 142, 143, 145, 146, 178 CHEMTREC, 142 **Dermatitis,** 71, 72. *See* **Pesticide poisoning,** symptoms. Desiccant. See Pesticide. fires, 36, 38, 41, 46, 47, 124, 125, 131, 137, 138, 139, **140**, 141, 142, 143, 145, 146 DF. See Dry flowables. Diluent, 158, 160, 171. See also Pesticide mixture. precautions to reduce fire hazards, 140 Directed spray application. See Pesticide application, planning, 133, 137, 138, 139, 140, 141, 143, 145, 146 methods. **Emulsifiable concentrate (EC or E),** 52, **53**, 55, 66, 74, 82, Directions for use. See Pesticide label, parts of. 118, 151, 152. See Pesticide formulation, liquid. Disinfectant (antimicrobial). See Pesticide. Emulsifier, 53, 55, 150, 151 Disposable PPE. See Personal protective equipment (PPE), Emulsion, 53, 55, 66, 152, See Pesticide formulation, maintenance. process. Dose/Dosage, 9, 14, 15, 21, 33, 38, 54, 58, 71, 74, 75, 77, Enclosed cab, 165, 174. See Pesticide application, safety 78, 83. See Lethal dose, 50 percent (LD₅₀). systems. **Drift,** 41, 55, 56, 57, 58, 59, 63, 65, **107**, 108, **109**, 110, 116, Endangered species, 26, 28, 117, 119, 120. See 118, 119, 143, 150, 167, **172**, 173, 174 **Environment.** applicator responsibility, 112 **Endangered Species Protection Program, 26**

particle, 109, 111, 173

prevention of, 109

Endangered Species Act (ESA), 26, 28. See Federal pesticide

laws, other laws and regulations.

```
Environment, 3, 4, 5, 6, 7, 10, 11, 14, 16, 34, 105, 106, 107,
                                                               F
    115, 117, 119, 120
    endangered species protection, 26, 28, 117, 119, 120
                                                               F. See Flowables (F)/liquids (L).
    pesticide movement in, 107
                                                               Faceshield. See Personal protective equipment (PPE), eve
        air, 107. See Drift.
                                                                    protection.
        objects, plants, or animals, 108. See Pesticide
                                                               Federal Food, Drug, and Cosmetic Act (FFDCA), 25, 27. See
            residue.
                                                                    Federal pesticide laws, other laws and regulations.
        water, 107. See Runoff; Leaching.
                                                               Federal Insecticide, Fungicide, and Rodenticide Act
    pesticides in, 3, 11, 16, 19, 20, 21, 22, 26, 27, 32, 33,
                                                                    (FIFRA), 19, 20, 21, 22, 24, 25, 27, See Federal
        34, 36, 37, 40, 41, 47, 48, 105, 106, 107, 108, 112,
                                                                    pesticide laws.
        115, 116, 117, 118, 119, 120, 124, 127, 132, 134,
                                                                    other laws and regulations, 25
        138, 146, 150, 156, 158, 160, 164, 165, 169, 173,
                                                                        Endangered Species Act (ESA), 26, 27, 28
        174, 178
                                                                        Federal Food, Drug, and Cosmetic Act (FFDCA),
    protecting sensitive areas and non-target organisms,
                                                                            25, 27
        117
                                                                        Food Quality Protection Act (FQPA), 22, 23, 24,
        non-target organisms, 117
                                                                            25, 27
            bees and other beneficial organisms, 118
                                                                        Worker Protection Standard (WPS), 25, 27, 28
            fish, wildlife, and livestock, 118
                                                                    violative acts and penalties, 24
            non-target plants, 117
                                                                        penalties, 24
        sensitive areas, 117
                                                                            civil penalties, 24
        water contamination, 11, 105, 106, 108, 109,
                                                                            criminal penalties, 24
            112, 113, 114, 115, 116, 118, 119, 120, 137,
                                                               Federal pesticide laws, 9, 14, 19, 25, 26, 27, 28, 32, 150,
            143. See Groundwater; Surface water.
                                                                    155, 158, 178, 182
            groundwater, 113, 115
                                                               Federal record-keeping requirements, 26, 28, 35, 158
            non-point-source, 112
                                                               Fetotoxicity, 46
            point-source, 112
                                                               FFDCA. See Federal Food, Drug, and Cosmetic Act.
            prevention of, 43, 99, 115, 120, 143, 146, 153,
                                                               Field incompatibility, 63. See Pesticide mixture;
                158, 165
                                                                    Incompatibility.
            surface water, 113, 115
                                                               FIFRA. See Federal Insecticide, Fungicide, and Rodenticide
Environmental Protection Agency (EPA), 3, 4, 19, 20, 21,
                                                                    Act.
    22, 23, 24, 25, 26, 27, 32, 33, 34, 35, 36, 37, 38, 41, 45,
                                                               Fires. See Emergency response.
    46, 47, 63, 76, 78, 80, 96, 105, 115, 119
                                                               First aid, 35, 40, 45, 47, 69, 71, 80, 81, 82, 83, 84, 131
EPA. See Environmental Protection Agency.
                                                                    for pesticide poisoning, 80
EPA establishment number, 35, 38. See Pesticide label,
                                                                        general concerns, 80
    parts of.
                                                                            antidotes, 83
EPA registration number, 34, 35, 38, 80, 129. See Pesticide
                                                                            eve, 81
    label, parts of.
                                                                            inhaled, 82
Equipment. See Pesticide application.
                                                                            mouth or swallowed, 82
Eradication. See Pest management, goals; Pest
                                                                                how to induce vomiting, 82
    management, methods, regulatory pest control.
                                                                            skin, 81
ESA. See Endangered Species Act.
                                                                    National Poison Control Center, 80, 181
Evaluation. See Integrated pest management, components.
                                                               Fit check or user seal check. See Respirators; Personal
Evaporation, 63, 64, 65, 83
                                                                    protective equipment, respiratory protection, proper
Exclusion. See Pest management, methods, mechanical
    control.
                                                                    use.
Exposure, 70, 71. See Pesticide exposure.
                                                               Fit factor. See Respirators; Personal protective equipment,
                                                                    respiratory protection, proper use.
Extender, 64. See Adjuvant, types of.
                                                               Fit test. See Respirators; Personal protective equipment
Eye exposure. See Pesticide exposure.
```

(PPE), repiratory protection, proper use.

Flash point, 46

Flowables (F)/liquids (L), 52, 55, 66, 152, 157. See Pesticide formulation, liquid.

Foam additive/agent, 110

Fog treatment, 156, 163, 168

Foliar application. *See* **Pesticide application,** methods.

Food chain, 3

Food Quality Protection Act (FQPA), 22, 23, 24, 25, 27. See

Federal pesticide laws, other laws and regulations.

Footwear, 91. See Personal protective equipment, skin protection; Chemical resistant.

Formulation. See Pesticide formulation.

FQPA. See Food Quality Protection Act.

Freezing/boiling point, 46,

Fumigant, 9, 59, 62, 71, 75, 76, 92, 94, 129. See Pesticide formulation, other.

Fungi, 4, 5, 6, 9, 10, 13, 15, 107

Fungicide. See Pesticide.

G

G. See Granules.

General-use pesticide, 20, 37. See also Restricted-use pesticide; Unclassified-use pesticide.

Genetic control. *See* **Pest management,** methods.

Gloves, 91. See Personal protective equipment (PPE), skin protection; Chemical resistant.

Goggles. See Personal protective equipment (PPE), eye protection.

Granular applicators, 168. See Pesticide application,

equipment.

drop spreader, 168

rotary spreader, 168

Granules (G), 51, 52, 58, 59, 60, 73, 91, 118, 129, 144, 152, 154, 157, 163, 168. See Pesticide formulation, dry or solid.

Groundwater, 11, 33, 41, 108, 112, 113, 115, 116, 120, 127,

128. See Environment, water contamination.

aquifer, 113

saturated zone, 113

water table, 41, 113

Growth regulator. See Pesticide.

Η

Habitat, 16, 26, 117, 119, 120

Hand-held sprayer. See Pesticide application, equipment.

Handler. See Pesticide handler.

Hats. See Personal protective equipment, skin

protection; Chemical resistant.

Hazard, 59, 61, **69**, **70**, 92, 120. *See* Pesticide hazard.

Hazard class, 76, 77. See also Signal word; Pesticide hazard; Pesticide toxicity.

Hazard statements, 39, 40, 41, 48, 115

Heat stress, 83, 84

symptoms of, 83, 84

Herbicide. See Pesticide.

Host, 1, 4, 7, 8, 9, 11, 13, 33

Host resistance, 8, 14. See Pest management, methods.

Hydraulic sprayer, 166. See Pesticide application, equipment.

I

Implementation. See Integrated pest management,

components.

Impregnate, 61. See Pesticide formulation, other.

Incident response. See Emergency response.

Incompatibility, 62, 63, 64, 151, 152.

See Compatibility; Pesticide mixture.

chemical, 151, 152

field, 63

physical, 151

placement, 151

timing, 151

Incompatible, 151. See Incompatibility.

Inert ingredient, 35, 36, 45, 51, 56, 63, 66. See also Active ingredient.

Ingestion. See Pesticide exposure, oral.

Ingredient statement, 36. See Pesticide label, parts of.

Inhalation. See Pesticide exposure.

Inhalation toxicity. See Pesticide toxicity.

Insect, 2, 4, 5 6, 7 8, 9, 10, 11, 12, 13, 14, 15, 56, 57, 58, 61, 69, 71, 118, 120, 150

Insecticide. See Pesticide.

Insoluble, 53

Integrated pest management (IPM), 5, 10, 11, 12, 13, 14,

16, 26, 115, 180

components, 11

evaluation, 14, 16

goals, 13, 14. See Pest management, goals. fire and explosion hazards, 46 identification, 11. See Pest identification. personal protection recommendations, 47 implementation, 14 physical and chemical properties, 46 regulatory levels and classification, 47 monitoring, 11. See Pest monitoring. Inversion. See Temperature inversion. toxicological information/human health data, 46 Invert emulsion, 55, 110, 150. See Pesticide formulation, development of, 45 liquid. Measuring. See Mixing and loading, safe practices. Invertebrate, 4, 40 Mechanical control. See Pest management, methods. IPM. See Integrated pest management. Microbial degradation. See Pesticide degradation. Microbial pesticide. See Pesticide. Microencapsulated materials, 52, 60, 66, 152. See Pesticide formulation, other. Microorganism, 3, 4, 6, 7, 8, 35, 107 Jar test. See Compatibility, testing. Mini-bulk container, 129, 165. See Closed mixing and loading systems, mechanical. Minimum-risk pesticide, 21, 32, 35. See Pesticide K registration; Section 25 (b) of FIFRA. Mist sprayer. See Air-blast sprayer. Mite, 2, 4, 5 6, 7, 8, 9 Key pest. See Pest identification. Miticide. See Pesticide. Mixing and loading, 21, 47, 66, 70, 73, 74, 87, 91, 92, 107, L 112, 115, 116, 117, 120, 132, 133, 145, 152, 153, 154, **158**, 159, **164**, 165, 166, 174 closed systems, 164, 165, 174 L. See Flowables (F)/liquids (L). Label. See Pesticide label. mechanical, 164, 165, 174 Labeling. See Pesticide labeling. mini-bulk container, 165 Larva, 5, 58. See also Life cycle; Pupa. water-soluble bags, 165, 174 Laws. See Federal pesticide laws. follow-up tasks, 158 LC₅₀ (lethal concentration, 50 percent), **75**, 77, 84 safe practices, 115, 116, 120, 150, 152, **153**, 154, 155 **LD₅₀** (lethal dose, 50 percent), **75**, 76, 77, 84 containment pad, 116, 120, 153, 158, 165, 166, 174 dermal, 75, 76, 77 measuring, 154 oral, 75, 76, 77 opening containers, 154 **Leaching, 107,** 108, **113,** 116, 119, 120 transferring pesticides, 154 Lethal concentration, 50 percent. See LC₅₀. Mixture. See Pesticide mixture. Lethal dose, 50 percent. See LD₅₀. Mobility. See Pesticide mobility. Life cycle, 4, 5, 11, 12, 14, 16, 150 Mode of action, 8, 15. See Pesticide. Liquid bait, 56. See Pesticide formulation, liquid. Molluscicide. See Pesticide. Mollusk, 2 Monitoring. See Pest monitoring. M MSDS. See Material safety data sheets. Mycoplasma, 4 Manual sprayers, 166. See Pesticide application, equipment.

N

National Poison Control Center, 80, 181. *See* First aid. Natural controls. *See* Pest management, methods. Natural enemies, 5, 6, 13
Negative pressure check. *See* Respirators, fit check;

components of, 45

additional information, 47

cholinesterase inhibition, 46

chemical product identification, 45

Material safety data sheets (MSDS), 45, 46, 47, 48, 63, 69, 78, 101, 125, 130, 134, 139, 141, 142, 143, 180, 181

characteristics. Personal protective equipment (PPE), respiratory **Personal protective equipment (PPE), 35, 42, 71, 80, 83,** protection, proper use, fit check. 84, 87, 88, 89, 90, 92, 96, 98, 99, 100, 101, 102, 108, Nematicide. See Pesticide. 129, 131, 152, 153, **156**, 157, 158, 159, 164, 165 Nematode, 4, 6, 8, 9, 58 chemical-resistant clothing, 88, 89, 90, 91, 92, 93, 98, Non-point-source, 112, 113, 115. See Environment, water 99, 100, 101. See also Water resistant, waterproof. contamination; also Point-source. eve protection, 87, 93, 99, 100, 101, 145 Non-selective pesticide. See Pesticide. Non-target organisms, 35, 48, 105, 117, 119, 120, 169. faceshield, 93, 100, 101, 154, 156 goggles, 47, 93, 100, 101, 154, 156, 157 See Environment, protecting sensitive areas and nonsafety glasses, 93, 100, 101, 154 target organisms. maintenance, 98 bees and other beneficial insects, 118 disposables, 90, 98, 100, 101, 145 plants, 55, 117 eyewear, 100 vertebrate animals, 58, 117, 118 respirators, 100, 101 Non-target sites/areas, 56, 106, 109, 119, 157 reusables, 98, 99, 101 Noxious weed, 10 washing PPE, 40, 81, 92, 98, 99, 100, 101, 159 Nozzles, 300. See Pesticide application, equipment, sprayer procedure, 100 components. respiratory protection, 54, 87, **94,** 95, **96,** 97, 98, 99, 100, 101, 101, 154. See Respirators. ()proper use, 96 fit check or user seal check, 97, 101 Occasional pest. See Pest identification. negative pressure check, 97 positive pressure check, 97 Oncogenicity, 46 fit factor, 97 Oral exposure. See Pesticide exposure. fit test, 96, 97, 101 Oral LD₅₀ (lethal dose, 50 percent), 75. See LD₅₀. Oral toxicity. See Pesticide toxicity. qualitative, 97 quantitative, 97 Organochlorine. See Chlorinated hydrocarbon. skin protection, 90, 91, 92, 93 Organophosphate, 8, 15, 45, 78, 83, Orifice. See Pesticide chemical-resistant apron, 88, 90, 91, 98, 99, 101, application, sprayer components, nozzles. Ovicide. See Pesticide. 153 chemical-resistant suit, 88, 90, 91, 98, 99, 101, 157 Oxidizer, 143 coveralls, 90, 91, 93, 98, 99, footwear, 87, 88, 90, 91, 92, 98, 99, 101, 144, 145, P 156, 157 gloves, 47, 72, 73, 87, 88, 90, **91**, 92, 93, 98, 99, P or PS. See Pellets. 101, 145, 153, 156, 157, 159 Parasite, 6, 14, 56, 61 hats, 88, 93, 144 Particle drift, 111. See Drift. work clothes, 90, 99, 101 Parts per million (PPM), 33 Pest, 2, 4, 10, 11, 16, 33. See Pest identification; Pest Pathogen, 2, 4, 5, 8, 10, 12, 13 control, etc. Pest control, 2, 3, 5, 10, 13, 16, 51, 52, 66, 174 Peligro. See Signal word, DANGER. Pellets (P or PS), 52, 59, 118. See Pesticide formulation, dry Pest identification, 4, 5, 10, 11, 14, 16 key pest, 11 Penalties. See Federal pesticide laws, violative acts and occasional pest, 11 penalties. secondary pest, 11 Penetrant. See Plant penetrant; Adjuvant, types of. signs, 5 Percolation, 114 **Pest management, 1,** 5, 7, 8, 10, 11, 12, 13, **14,** 15, 16, 65, 150, 163, 174 Permeability, 41, 115

effectiveness, 14, 16

Persistence, 3, 9, 11, 15, 106. See Pesticide; Pesticide

goals, 13 , 14	piscicide, 8
eradication, 13	predacide, 8
prevention, 7, 13	repellent, 8, 36, 61
suppression, 7, 13	residual, 3, 9, 59
methods, 5	rodenticide, 8 , 15, 45, 56, 71, 75, 76, 78, 83,
applied controls, 5	selective, 9
biological control, 5 , 6, 13	selectivity, 9
chemical control, 8 , 16,	systemic, 9 , 61 , 63, 64, 65
cultural control, 7, 13	termiticide, 21, 51
cultural practices, 7, 9	Pesticide application, 6, 8, 12, 13, 14, 15, 16, 19,20, 21, 24,
sanitation, 2, 7, 11, 12, 56, 180	32, 33, 34, 35, 43, 47, 51, 52, 62, 63, 64, 70, 71, 72,
host resistance or genetic control, 8	73, 74, 84, 92, 93, 95, 101, 107, 110, 112, 115, 116,
mechanical control, 6	117, 118, 119, 120, 133, 149 , 150, 151, 156 , 157, 158,
cultivation, 6, 13	159, 160, 163, 164, 165, 166, 167, 168, 169, 170, 174,
exclusion, 6	178, 180, 181
trapping, 7 , 12, 22	calculating areas, 169 , 170
natural controls, 5	circular, 170
physical/environmental modification, 7	rectangular, 170
regulatory pest control, 9	triangular, 170
eradication, 9	calculating the rate, 170
quarantine, 9	equipment, 35, 52, 54, 59, 63, 70, 72, 73, 126, 131, 132,
Pest monitoring, 9, 11, 12, 14, 15, 57	133, 145, 150, 155, 156, 157, 158, 159, 163, 164,
Pest population thresholds, 12	166, 167, 168, 174
action threshold, 12	air-blast sprayer, 93, 166
economic injury level (EIL), 12	backpack, 232, 156, 174
economic threshold (ET), 12	calibration, 99, 54, 59, 115, 163, 169 , 170, 171, 174
Pest recognition. See Pest identification.	cleaning, 73, 74, 91, 115, 116, 117, 120, 142, 144,
Pest resistance. See Pesticide resistance.	145, 149, 158 , 159, 160, 297, 167, 174. See
Pesticide, 8, 9, 10, 13, 14, 15, 16, 33, 45, 47, 48, 51, 69,	Rinsate.
87, 106, 113, 123, 140, 150	granular applicators, 168
avicide, 8	drop spreader, 168
bactericide, 8	rotary spreader, 168
contact, 9, 64	hand-held, 232, 156, 166, 169, 174
desiccant, 8	high exposure, 156
disinfectant, 8 , 45	hydraulic sprayer, 54, 115, 117, 159, 166, 174
fungicide, 2, 8 , 15, 43, 45, 61, 62, 71, 75, 78	manual sprayers, 166, 167
growth regulator, 8 , 36	sprayer components, 167
herbicide, 8 , 13, 15, 37, 43, 45, 61, 62, 71, 75, 76, 78,	agitator, 60, 167
118, 126, 151,	nozzles, 54, 55, 59, 98, 124, 151, 156, 157, 158
	159, 166, 167 , 168 172, 173, 174
insecticide, 2, 3, 8 , 15, 33, 36, 37, 45, 56, 58, 61, 62, 71,	
75, 76, 78, 79, 83, 118	orifice, 167 , 172
microbial, 8	pump, 54, 55, 59, 64, 145, 153, 159, 167
miticide, 8	tank, 41, 53, 60, 61, 63, 64, 65, 116, 126, 150,
mode of action, 8, 15	151, 152, 154, 155, 157, 159, 165, 167
molluscicide, 8	methods, 163
nematicide, 8	band, 115, 163 , 168
non-selective, 9	basal, 164
ovicide, 9	broadcast, 112, 164 , 168
persistence, 3, 9 , 11, 15, 106 , 107, 119	crack and crevice, 157, 164

directed spray, 164	systemic, 71, 73, 74, 75, 76, 78, 84
foliar, 61, 63, 64, 164	Pesticide efficacy, 33, 46, 63, 64, 65, 182, 227
soil application, 58, 164	Pesticide emergency. See Emergency response.
soil incorporation, 59, 151, 164	Pesticide exposure, 22, 23, 25, 27, 35, 39, 46, 70, 71, 72, 75,
soil injection, 164	77, 78, 79, 80, 81, 82, 83, 84, 87, 88, 90, 91, 92, 93, 97,
spot, 56, 115, 118, 164, 166	99, 101, 117, 118, 119, 130, 133, 153, 156, 158, 160,
personal protective equipment (PPE), 156	164, 165, 174
pesticide selection, 150	acute, 46, 74 , 84
planning, 149	chronic, 74, 77 , 84
procedures, 157	dermal, 33, 38, 39, 40, 46, 70, 72, 73, 74, 75, 76, 81 , 84
reviewing the label, 150	87, 90, 91, 92, 99, 145, 159
safety systems, 164, 174. See Closed mixing and	eye, 38, 39, 40, 70, 71, 72, 73, 74, 76, 81 , 84, 87, 93, 94
loading systems.	inhalation, 38, 39, 40, 46, 55, 56, 60, 61, 70, 72, 74, 76
closed mixing and loading systems, 164	81, 82 , 84, 87, 94, 101, 154,
mechanical, 164	oral, 38, 46, 61, 72, 74, 75, 76, 80, 82, 84, 87
mini-bulk containers, 165	Pesticide formulation, 36, 37, 51 , 52, 53, 54, 55, 56, 57, 58
water-soluble packaging, 165. See Water-	59, 60, 61, 63, 65, 66, 70, 72, 73, 74, 75, 87, 88, 92, 93,
soluble bags.	94, 110, 112, 118, 120, 126, 128, 129, 151, 152, 157,
enclosed cab, 165	166, 167, 168,
pesticide containment systems, 165. See	dry or solid, 37, 56 , 72, 88, 129, 140, 152, 154
Containment pad.	bait (B), 57
Pesticide characteristics, 106	pastes, gels and other injectable baits, 58
adsorption, 106 , 114, 119	dust (D), 56
persistence, 106 , 113, 119	granules (G), 58
degradation, 107. See Pesticide degradation.	pellets (P or PS), 59
solubility, 53, 106, 113, 116, 119	soluble powder (SP or WSP), 60
volatility, 46, 107 , 111, 119,	tracking powder, 57
Pesticide concentrate , 51, 54, 59, 70, 74, 88, 91, 92, 93,	water-dispersible granules (WDG) or dry flowable
99, 153, 155, 156, 165. See also Active ingredient.	(DF), 60
Pesticide container, 32, 43, 55, 70, 72, 74, 80, 92, 126, 127,	wettable powder (WP or W), 59
129, 130, 131, 134, 141, 142, 145, 154, 155 , 156, 159,	liquid, 69, 52, 53 , 55, 59, 73
164, 165	aerosol (A), 55
cleaning, 131, 155	for smoke or fog generators, 56
rinsing procedures, 155. See Triple-rinsing;	ready-to-use, 55
Pressure-rinsing.	emulsifiable concentrate (EC or E), 53
disposal, 11, 26, 36, 43, 112, 116, 131, 150, 155, 160	flowables (F)/liquids (L), 55
non-rinsable, 155 , 160	invert emulsion, 55
opening, 154	liquid bait, 56
rinsable, 155 , 160	ready-to-use low-concentrate solution (RTU), 54
storage, 127, 128, 129, 130, 131, 134, 138, 140, 150	solution (S), 54
Pesticide degradation, 33, 64, 106, 108, 115, 128	ultra-low-volume, 54
biological/microbial, 107	other, 60
photodegradation, 107	animal systemic, 61
Pesticide effects, 71, 72,	attractant, 61
acute, 47, 70 , 74, 75, 79, 91	fumigant, 62
allergic, 46, 71 , 72, 84	impregnate, 61
chronic, 33, 46, 47, 70 , 77	microencapsulated materials, 60
contact, 71 , 73, 74, 75, 76, 77, 80, 84	pesticide/fertilizer combinations, 61
delayed, 46, 75, 78, 79, 91	repellent, 61

```
water-soluble packets, 52, 61, 66
                                                                           trade, brand, or product name, 36
    process, 52
                                                                           type of pesticide, 37
                                                                           use classification statement, 37, 129
        emulsion, 53
        solution, 53
                                                                      when to read, 16, 35, 36, 43, 47, 48, 64, 65, 66, 70, 88,
        suspension, 53
                                                                           150, 152, 163
Pesticide handler, 25, 27, 42, 66, 70, 79, 83, 84, 87, 89, 91,
                                                                  Pesticide labeling, 12, 19, 20, 21, 22, 31, 32, 33, 43, 117,
    92, 93, 99, 108, 120, 127, 128, 133, 153, 154, 164, 174
                                                                       128, 129, 130, 131, 145, 150, 153, 156, 158, 164
Pesticide hazard, 39, 59, 60, 70, 73, 75, 76, 77, 87, 91, 108,
                                                                      approval of, 32
                                                                  Pesticide mixture, 2, 21, 62, 63, 64, 65, 150, 151, 152, 153,
    120
Pesticide label, 16, 20, 21, 24, 26, 32, 33, 34, 35, 43, 44, 47,
                                                                       157, 158, 159, 167, 170, 171
    48, 51, 59, 62, 63, 64, 65, 66, 70, 76, 77, 80, 82, 94, 87,
                                                                      incompatibility, 62, 63
    88, 90, 91, 92, 93, 94, 95, 96, 99, 100, 101, 102, 105,
                                                                          field, 63
    106, 108, 115, 116, 117, 118, 119, 125, 126, 128, 129,
                                                                  Pesticide mobility, 33, 106, 107
    130, 134, 142, 143, 150, 151, 154, 157, 158, 159, 165,
                                                                  Pesticide poisoning, 25, 38, 40, 61, 71, 78, 79, 80, 81, 82,
    166, 170, 171, 174, 178, 179, 180, 181
                                                                      83, 84, 87, 118, 119, 126, 129, 143, 153, 154
    background of, 32, 33
                                                                      secondary, 119
        degradation, mobility, and residue tests, 33
                                                                      symptoms, 71, 72, 78, 79, 80, 84. See Symptom
        efficacy or performance tests, 33
                                                                           recognition.
        toxicological tests, 33, 46
                                                                  Pesticide registration, 19, 21, 27, 32, 33, 34, 35, 47, 63, 71,
        wildlife and environmental effects, 34
                                                                       105. See Pesticide reregistration.
    parts of, 36
                                                                      emergency exemption, 21, 34, 35
        agricultural use requirements, 41, 42
                                                                           Section 18 exemption, 21, 34
             restricted-entry interval (REI), 42. See
                                                                      minimum-risk pesticide, 20, 35
                 Restricted-entry interval (REI).
                                                                           Section 25 (b) of FIFRA, 21, 35
        directions for use, 43
                                                                      Section 24 (c) special local need (SLN), 21, 34
        emergency telephone number, 37
                                                                      Section 3 of FIFRA, 21, 34
        environmental hazards, 40
                                                                  Pesticide reregistration, 22, 26, 27
             general environmental statements, 40
                                                                  Pesticide residue, 3, 16, 22, 23, 24, 25, 27, 33, 45, 73, 87,
                                                                      90, 99, 100, 106, 108, 118, 140, 155, 158.
             special toxicity statements, 40
        establishment number, 35, 38
                                                                      See also Tolerance.
        ingredient statement, 36, 37
                                                                  Pesticide resistance, 2, 10, 14, 15, 16
        name and address of manufacturer, 37
                                                                  Pesticide site security, 131, 132, 133, 134, 178, 179
        net contents, 37
                                                                      benefits of security efforts, 131
        non-agricultural use requirements, 42
                                                                      employee training and awareness, 132
        physical or chemical hazards, 41. See Hazard
                                                                      evaluating, 132
             statements.
                                                                      risk assessment, 132
        precautionary statements, 20, 38, 39, 40, 47, 69, 75,
                                                                  Pesticide spills. See Spills.
             76, 77
                                                                  Pesticide storage. See Storage of pesticides.
             protective clothing and equipment statements,
                                                                  Pesticide toxicity, 20, 22, 23, 33, 37, 38, 39, 40, 45, 46, 47,
                                                                      61, 62, 70, 71, 73, 74, 75, 76, 77, 84, 94, 96, 105, 134,
             routes of entry statements, 39, 47
                                                                       146, 151
             specific action statements, 39, 47
                                                                      acute, 38, 46, 47, 70, 74, 75, 76, 77, 78, 79, 84, 91, 118,
        registration number, 35, 38. See EPA registration
                                                                           133. See also LC<sub>50</sub>; LD<sub>50</sub>.
             number.
                                                                      chronic, 33, 46, 47, 70, 74, 77, 84
        signal words and symbols, 38, 47, 75, 76. See Signal
                                                                      contact, 76
                                                                      delayed, 46, 74, 75, 78, 79, 91
             skull and crossbones, 38, 75, 76
                                                                      dermal, 38, 46, 75, 76, 77, 91
        statement of practical treatment, 40, 48
                                                                      inhalation, 38, 46, 74, 76, 94
        storage and disposal, 43
                                                                      oral, 38, 46, 75, 76, 77
```

systemic, 73, 74, 75, 76, 77

Pesticide transportation. See Transportation of pesticides. Pesticide/fertilizer combinations, 21, 61, 151. See Pesticide formulation, other.

pH, 63, 64, 151. See also Acidic; Alkaline.

Pheromone, 61

Photodegradation, 107. See Pesticide degradation.

Physical incompatibility. See Incompatibility.

Physical/environmental modification. See Pest management, methods.

Phytotoxicity, 43, 54, 64, 117

Piscicide. See Pesticide.

Placard, 126. See Transportation of pesticides, security.

Placement incompatibility. See Incompatibility.

Plant penetrant, 64, 150. See Adjuvant, types of.

Point-source, 112, 115. See Environment, water contamination; also Non-point-source.

Poison, 38, 57, 75 76, 82, 84, 99, 127. See also Signal word; LD₅₀.

skull and crossbones symbol, 38, 75, 76

Poison control center. See National Poison Control Center.

Poisoning, 80, 83. See Pesticide poisoning.

Positive pressure check. See Respirators, fit check; Personal protective equipment (PPE), respiratory protection, proper use, fit check.

Posting of treated site, 180. See Professional conduct, public and customer communications.

PPE. See Personal protective equipment (PPE).

PPM. See Parts per million.

Preapplication notification, 180. See Professional conduct, public and customer communications.

Precautionary statements. See Pesticide label, parts of.

Precipitate, 151, 152

Predacide. See Pesticide.

Predator, 5, 6, 14, 118, 168

Preemergence, 151

Preharvest interval, 33, 43, 61, 150

Premix, 62, 63

Preplant pesticide, 13

Preslaughter interval, 33

Preslurry. See Slurry.

Pressure-rinsing, 131, 155, 159, 165. See Storage of pesticides, isolate waste products.

Prevention. See Pest management, goals.

Private applicator. See Certified applicator.

Professional conduct, 14, 177, 178, 179, 180, 181, 182

pesticide security, 179

public and customer communications, 179, 180

how to answer consumer questions, 181

posting, 180 preapplication notification, 180 your professional image, 181

supervision, 177, 178, 179, 182

Protective clothing and equipment statements. See **Pesticide label,** parts of, precautionary statements.

Pump. See Pesticide application, equipment, sprayer components.

Pupa, 5. See also Larva; Life cycle.

Pyrethroid, 8, 15, 78

Qualitative fit test. See Respirators, fit test; Personal protective equipment, proper use, fit test.

Quantitative fit test. See Respirators, fit test; Personal protective equipment, proper use, fit test.

Quarantine. See Pest management, methods, regulatory pest control.

R

Rate. See Application rate.

RCRA. See Resource Conservation Recovery Act (RCRA).

Ready-to-use low-concentrate solution (RTU), 52, 54. See Pesticide formulation, liquid.

Record-keeping, 26, 27, 28, 35, 158, 179, 180, 181. See Federal record-keeping requirements. training records, 27, 28, 178

Registered pesticide, 21, 22, 24, 26, **34,** 43, 63, 64, 150. *See* Pesticide registration.

Registration. See Pesticide registration.

Registration number. See EPA registration number; Pesticide registration.

Regulatory pest control. See Pest management, methods.

REI. See Restricted-entry interval.

Repellent, 8, 36, 61. See Pesticide; Pesticide formulation,

Reregistration. See Pesticide reregistration.

Residual pesticide. See Pesticide.

Residue. See Pesticide residue.

Resistance. See Host resistance; Pesticide resistance.

Resistant, 2, 8, 10, 13, 14, 15. See Host resistance; Pesticide resistance.

Resource Conservation Recovery Act (RCRA), 131, 144

Respirators, 39, 47, 56, 62, 72, 80, 87, 93, **94,** 95, 96, 97,

98, 99, 100, 101, 101,145, 154, 157. See Personal

pesticides; Professional conduct. protective equipment, respiratory protection. Seed treatment, 56, 118, 130 air-purifying, 94, 95, 96, 101 Selective pesticide. See Pesticide. air-supplying, 94 Selectivity, 9. See Pesticide. fit check or user seal check, 97, 101 Sensitive areas, 65, 106, 109, 116, 117, 120, 164, 173. See negative pressure check, 97 Environment, protecting sensitive areas and non-target positive pressure check, 97 fit factor, 97 organisms. Shelf life. See Storage of pesticides. fit test, **96**, 97, 101 **Signal word,** 35, **38**, 39, 40, 41, 47, **75**, 76, 77, 84, 99, 129 qualitative, 97 quantitative, 97 CAUTION, 38, 39, 40, 62, 76, 77, 84 DANGER, 38, 39, 40, 76, 77, 99 maintenance, 100 peligro, 38, 76, 77 Restricted-entry interval (REI), 42, 71 DANGER—POISON, 38, 62, 75, 76, 84, 99 Restricted-use pesticide (RUP), 20, 21, 37, 40, 105, 178. See also Unclassified-use pesticide; General-use pesticide. WARNING, 39, 39, 40, 62, 76, **77**, 84, 99 Reusable PPE. See Personal protective equipment (PPE), aviso, 38, 76 maintenance. Signs. See Pest identification. Rinsate, 108, 112, 117, 154, 155, 158, 160 Site. See Application site. Risk assessment, 23, 25, 27, 71, 132. See Pesticide site Skin exposure. See Pesticide exposure, dermal. Skull and crossbones symbol, 38, 75, 76. See Poison; Signal security. **Rodent,** 1, 4, 5, 7, 8, 57, 71, 74 word. SLN. See Section 24 (c) special local need. Rodenticide. See Pesticide. Rotary spreader. See Granular applicators; Pesticide Slurry/preslurry, 152 **Soil application.** *See* **Pesticide application,** methods. application, equipment. Roundworm. See Nematode. **Soil incorporation.** *See* **Pesticide application,** methods. Soil injection. See Pesticide application, methods. Routes of entry statements. See Pesticide label, parts of, precautionary statements. Solubility, 46, 53, 106, 113, 119. See Pesticide characteristics. RTU. See Ready-to-use low-concentrate solution. Runoff, 116, 118, 119, 127, 200, 220, 223, 228, 232 **Soluble powder (SP or WSP),** 52, **60**, 61, 66, 129, 152. *See* RUP. See Restricted-use pesticide. **Pesticide formulation,** dry or solid. **Solution, 53,** 60, 62, 64, 65, 66, 82, 116, 144, 167. See Pesticide formulation, process. Solution (S), 52, 54, 66, 152. See Pesticide formulation, liquid. S. See Solution. **Solvent,** 51, 53, 54,, 55, 63, 74, 82, 88, 89, 106, 140. *See* also Safety glasses. See Personal protective equipment (PPE), Solution; Solubility. SP or WSP. See Soluble powder. eye protection. Safety systems. See Pesticide application. Special local need (SLN), 34, 38. See Section 24 (c) special Sanitation. See Pest management, methods, cultural local need. Specific action statements. See Pesticide label, parts of, control Saturated zone, 113. See Groundwater. precautionary statements. Spill kit. See Spills, spill cleanup kit. Secondary pest. See Pest identification. **Spills,** 25, 38, 47, 70, 73, 74, 83, 91, 107, 108, 112, 116, 124, Secondary poisoning, 118. See Pesticide poisoning. Section 18 exemption, 21, 34. See Pesticide registration, 125, 128, 129, 130, 134, 137, 138, 139, **142**, 143, 144, 145, 146, 165 emergency exemption Section 24 (c) special local need (SLN), 21, 34. See Pesticide cleanup, 125, 134, 142, 144, 145, 146, 165 contain, 116, 142, 143, 144, 146 registration. **Section 25 (b) of FIFRA,** 21, 35, 38 control, 116, 125, 142, 146 Section 3 of FIFRA, 34. See Pesticide registration. dry, 144, 146 Security. See Pesticide site security; Transportation of liquid, 143, 146

S

236 INDEX

prevent, 129, 145, 154, 167, spill cleanup kit, 125, 129, 144, 145, 146 **Spot treatment.** *See* **Pesticide application,** methods. Spray boom, 166, 172, 173 Spray deposit. See Deposit. Spray drift. See Drift. **Sprayer.** *See* **Pesticide application,** equipment. **Spreader,** 51, 59, 63, 64, 66, 126, **150.** See **Adjuvant,** types of, surfactant; **Pesticide application**, equipment. **Stability,** 3, **46,** 64, 126 State lead agency (SLA), 119 **Sticker**, 51, 55, **150**, 164. *See* **Adjuvant**, types of. Stomach poison, 57, 197. See also Poison. **Storage of pesticides,** 9, 19, 25, 40, **43,** 47, 101, 112, 117, 119, **123**, 124, 125, **127**, 128, 129, 130, 131, 132, 133, 134, 138, 140, 141, 142, 150, 154, 155, 157 control the temperature, 128 isolate waste products, 131 pressure-rinsed, 131 triple-rinsed, 131 keep labels legible, 129 look for damage, 129 maintain the site, 129 prevent water damage, 127 provide adequate lighting, 128 safety tips, 130 secure the site, 127 shelf life of pesticides, 130 store containers safely, 129 use non-porous materials, 128 Structural pest, 11, 16, 21, 54, 56, 62. See also Pest. Suit, 91. See Personal protective equipment (PPE), skin protection; Chemical resistant. Supervision, 20, 21, 141, 177, 178, 179, 182. See Professional conduct; also Certified applicator. Supplemental labeling, 34, 35, 63 Suppression. See Pest management, goals. Surface water, 41, 108, 112, 113, 115, 116, 120, 127. See **Environment,** water contamination. Surfactant, 63, 64, 150. See Adjuvant, types of. **Susceptible,** 5, 13, 14, 15, 55 **Suspension, 53,** 55, 62, 64, 66, 130, 152, 157, 167. See Pesticide formulation, process. **Symptom recognition,** 71, 72, **78,** 79, 80, 84 Symptoms. See Pesticide poisoning. Systemic effects, 71, See Pesticide effects. Systemic pesticide, 61. See Pesticide; Pesticide formulation, other; Animal systemic.

Systemic toxicity. See Pesticide toxicity.

 ${f T}$ Tank, 167. See Pesticide application, equipment, sprayer components. Tank mix, 62, 63, 117, 150, 152, 159. See also Compatibility. making, 152 order, 152 **Target,** 6, 13, 14, 21, 33, 34, 47, 51, 54, 55, 56, 57, 58, 59, 62, 64, 65, 66, 71, 107, 109, 110, 116, 117, 118, 150, 151, 157, 158, 163, 166, 172, 173, 174. See also Non-target organisms; Non-target sites. Temperature inversion, 110, 111, 173 Teratogenicity, 46 Termiticide. See Pesticide. Thickener, 65. See Adjuvant, types of. Thresholds. See Pest population thresholds. Timing incompatibility. See Incompatibility. Tolerance, 22, 23, 24, 25, 27, 33, See also Pesticide residue. Toxic, 6, 8, 37, 38, 40, 45, 46, 60, 62, 70, 73, 75, 76, 77, 84, 94, 96, 99, 107, 118, 124, 142, 146, 179. See Pesticide toxicity. Toxicant, 75. See also LD₅₀. Toxicity, 70. See Pesticide toxicity. **Toxicological tests.** *See* **Pesticide label,** background of. Tracking powder, 57. See Pesticide formulation, dry or solid, dust (D). Trade name, 36, 47, 129, 181. See Pesticide label, parts of. Training records, 27, 28. See Record keeping. Transportation of pesticides, 19, 25, 27, 51, 54, 59, 119, 123, **124**, 125, 126, 127 131, 132, 134, 137, 139, 142, 146 other safety precautions, 125 security, 123, 126, 127, 132, 134 placard, 126 transportation security plan, 127 transport vehicle, 80, 81, 123, 124, 125, 126, 127, 129, 134, 142, 144, 145 vehicle operator, 125, 134, 142 Transportation security plan, 127. See Transportation of pesticides, security. Trapping. See Pest management, methods, mechanical

control.

Triple-rinsing, 43, 131, 155, 162. See Storage of

pesticides, isolate waste products.

W

Ultra-low-volume (ULV), 52, 54, 166, See Pesticide formulation, liquid.

ULV. See Ultra-low-volume.

Unclassified-use pesticide, 20, 37, 178. See also Restricteduse pesticide; General-use pesticide.

United States Department of Agriculture (USDA), 23, 26, 27, 28

USDA. See United States Department of Agriculture.

User seal check *or* fit check. *See* Respirators; Personal protective equipment, respiratory protection, proper use.

V

Vapor drift. See Drift.

Vapor pressure, 46

Vertebrate, 4, 5, 6, 7, 8, 11, 57, 58, 118

Violative acts and penalties. See Federal pesticide laws.

Virus, 4, 12

Viscosity, 65, 109

Volatility, 46, 107. See Pesticide characteristics.

WARNING. See Signal word.

Washing PPE, 99. *See* Personal protective equipment (PPE), maintenance.

Water resistant, 88, 91. *See* Personal protective equipment (PPE).

Water table, 41, 113. See Groundwater.

Water-dispersible granules (WDG), 52, 60, 152. *See*Pesticide formulation, dry or solid; Dry flowables (DF).

Waterproof, 88, 91, 92, 126, 154. *See* **Personal protective equipment (PPE).**

Water-soluble packaging, 52, 61, 66, 70, 165. See Closed mixing and loading systems; Pesticide formulations, other, water-soluble packaging.

WDG. See Water-dispersible granules.

Weed, 2, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 37, 58, 62, 151

Wettable powder (WP or W), 36, 52, 55, **59**, 60, 61, 73, 118, 129, 144, 151, 152, 154, 157, 167, 168. *See* Pesticide formulation, dry or solid.

Wetting agent, 63, 66, See Adjuvant, types of, surfactant.

Work clothes, **90**. *See* Personal protective equipment (PPE), skin protection.

Worker Protection Standard (WPS), 25, 27, 28, 41, 42, 93. See Federal pesticide laws, other laws and regulations.

WP or W. See Wettable powder.

WPS. See Worker Protection Standard.